

Interactive comment on “Radiometric correction of observations from microwave humidity sounders” by Isaac Moradi et al.

Anonymous Referee #2

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[General] This manuscript shows the methods and approaches of intercalibration between sounders to apply for long-term data set like climate data record. However, as I mentioned initially, Authors need to improve manuscript including figures and clarify the description helping readers to understand/read easily. I recommend to fix following issues before publish the paper.

[Misspell] Line 13, intercalibrated should be intercalibrated Line 195 and 329, onobard should be onboard Line 312, hydrolological should be hydrological Line 281-282, recommend target/reference to be lower case Line 282, ax should be a only? (if a and b are slope and intercept) Line 117, horizontally should be vertically Line 118, vertically should be horizontally

[Comment] Line 17-18, it is better to show the table or description of channel, fre-

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quency, polarization and use channel number thereafter. Figures 1 and 2 are need to improve to help readers can follow the description. Suggest separate by channel like Figure 6. Figure 3 and 5 are basically telling same story, yet prefer to see Figure 5 since it has all channels and better understanding. Line 198, please specify the temporal/spatial condition for your collocation. Figures 3 and 4 are not included channel 4 and 5. Is it Figures 6 and 9, please specify the MOA as MetOp-A somewhere. I assume NOAA-19 and MetOp-A has been doing same procedure as others using NOAA-18 as a reference instrument. Figure 6, is this both tropical and polar regions or just only tropical region? Figure 7, it's better show only tropic (30S-30N) and polar (~75S, 75N~) only and then plot your calibration coefficients line on top of them. (specify a and b as well)

Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2018-252, 2018.